

## **EXHIBIT 4**

Assay report obtained from Novascreen, USA for Gupta et. al.

*Gupta et al*

**Assay Report**



Client Name: Lupin Ltd. (Research Park)

Barcode Number: 063662-1

Client Contact: Rajan Goel

Client Number: LLL6738

Task Order Number: 06-3662

Solubility of Stock: Soluble

Receptor	Percent Inhibition (Average; N = 2)	
	2.560 ug/ml	2.562 ug/ml
<b>NEUROTRANSMITTER RELATED</b>		
GABA A, Agonist Site	19.21%	95.95%
Glutamate, AMPA Site (Ionotropic)	-0.89%	41.69%
Glutamate, Chloride Dependent Site (Ionotropic)	1.95%	84.35%
Glutamate, Kainate Site (Ionotropic)	-1.16%	25.68%
Glutamate, NMDA Agonist Site (Ionotropic)	15.26%	66.02%
Glutamate, NMDA, Glycine (Stry-insens Site) (Ionot	4.03%	42.60%
<b>ION CHANNELS</b>		
GABA, Chloride, TBOB Site	-14.60%	-3.77%
Sodium, Site 2	13.37%	3.30%

Values are expressed as the percent inhibition of specific binding and represent the average of replicate tubes at each of the concentrations tested. Bolded values represent inhibition of 50% or greater.

21 January 2007

Page C-1

Assay report obtained from Novascreen, USA for Emblica officinalis alone

Assay Report



Client Name: Lupin Ltd.  
Client Contact: Rajan Goel  
Task Order Number: 06-3491

Barcode Number: 063491-1  
Client Number: LLL-3064  
Solubility of Stock: Soluble

Receptor	Percent Inhibition (Average; N = 2)	
	2.5E0 ug/ml	2.5E2 ug/ml
<b>NEUROTRANSMITTER RELATED</b>		
GABA A, Agonist Site	64.09%	102.22%
Glutamate, AMPA Site (Ionotropic)	-10.07%	56.20%
Glutamate, Chloride Dependent Site (Ionotropic)	28.28%	49.24%
Glutamate, Kainate Site (Ionotropic)	-1.12%	39.30%
Glutamate, NMDA Agonist Site (Ionotropic)	14.92%	71.82%
Glutamate, NMDA, Glycine (Stry-ineens Site) (Ionot	0.48%	28.21%
<b>ION CHANNELS</b>		
GABR $\alpha$ , Chloride, TBOS Site	-1.95%	-0.03%
Sodium, Site 2	7.11%	3.93%

Values are expressed as the percent inhibition of specific binding and represent the average of replicate tubes at each of the concentrations tested. Bolded values represent inhibition of 50% or greater.

06 December 2006

Page C-1